

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 0000053896	FOR FURTHER AC	TOTAL	eation of Transmittal of International Examination Report (Form PCT/IPEA/416)				
International application No.	International filing dat	e (day/month/year)	Priority date (day/month/year)				
PCT/EP2003/009594	29 August 2003	3 (29.08.2003)	03 September 2002 (03.09.2002)				
International Patent Classification (IPC) or n C12N 15/82, C12Q 1/68, C07K							
Applicant	SUNGENE GMB	H & CO. KGAA					
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2. This REPORT consists of a total of	5 sheets,	including this cover s	heet.				
amended and are the basis for	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a to	tal ofs	sheets.					
3. This report contains indications rela	ting to the following ite	ms:					
I Basis of the report							
II Priority							
III Non-establishment	of opinion with regard to	o novelty, inventive st	ep and industrial applicability				
IV Lack of unity of inv	ention						
V Reasoned statement citations and explan	under Article 35(2) wit ations supporting such	h regard to novelty, in statement	ventive step or industrial applicability;				
VI Certain documents	VI Certain documents cited						
VII Certain defects in the	VII Certain defects in the international application						
VIII Certain observations on the international application							
Date of submission of the demand		Date of completion of	of this report				
31 March 2004 (31.03	.2004)	01	July 2004 (01.07.2004)				
Name and mailing address of the IPEA/EP		Authorized officer					
Facsimile No.		Telephone No.					

Form PCT/IPEA/409 (cover sheet) (July 1998)



International application No.

PCT/EP2003/009594

I. Basis	I. Basis of the report					
1. With	regard to	the elements of the international application:*				
\boxtimes	the inte	mational application as originally filed				
\boxtimes	the desc	cription:				
	pages	1-53	, as originally filed			
	pages		, filed with the demand			
	pages	, filed with the letter of				
\square	the clair					
K-XI	pages	1.00	, as originally filed			
	pages	, as amended (together with any s				
	pages		, filed with the demand			
	pages	, filed with the letter of				
\square	Alle dues					
	the drav	•	as originally filed			
	pages pages		, filed with the demand			
	pages	, filed with the letter of				
K-21						
	the seque	nce listing part of the description:				
	pages	1-17				
	pages		, filed with the demand			
	pages	, filed with the letter of				
the i	nternation	o the language, all the elements marked above were available or furnished to this Authorit nal application was filed, unless otherwise indicated under this item. Its were available or furnished to this Authority in the following language	y in the language in which			
	the lan	guage of a translation furnished for the purposes of international search (under Rule 23.1(b))).			
	the lan	guage of publication of the international application (under Rule 48.3(b)).				
	the lar	aguage of the translation furnished for the purposes of international preliminary examination.	ion (under Rule 55.2 and/			
		to any nucleotide and/or amino acid sequence disclosed in the international approximation was carried out on the basis of the sequence listing:	lication, the international			
	contair	ned in the international application in written form.				
	filed to	ogether with the international application in computer readable form.				
	furnisł	ned subsequently to this Authority in written form.				
	1	ned subsequently to this Authority in computer readable form.				
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
		tatement that the information recorded in computer readable form is identical to the with turnished.	ritten sequence listing has			
4.	The ar	mendments have resulted in the cancellation of:				
ł		the description, pages				
1		the claims, Nos.	•			
1		the drawings, sheets/fig				
5.		eport has been established as if (some of) the amendments had not been made, since they had it is the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	have been considered to go			
in t	lacement his repoi 70.17).	sheets which have been furnished to the receiving Office in response to an invitation under t as "originally filed" and are not annexed to this report since they do not contain	r Article 14 are referred to amendments (Rule 70.16			
	•	nent sheet containing such amendments must be referred to under item 1 and annexed to this	report.			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

rnational application No.

PCT/EP2003/009594

111. 14011-	establishment of opinion with regard to noverty, inventive step and industrial applicability				
1. The q indust	uestions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be rially applicable have not been examined in respect of:				
	the entire international application.				
\boxtimes	claims Nos9-11				
becaus	se:				
	the said international application, or the said claims Nos.				
لسا	relate to the following subject matter which does not require an international preliminary examination (specify):				
	· · · · · · · · · · · · · · · · · · ·				
i I					
ı I					
	the description, claims or drawings (indicate particular elements below) or said claims Nosare so unclear that no meaningful opinion could be formed (specify):				
}					
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.				
	no international search report has been established for said claims Nos				
	Incommonat detter report has seen someonished for only ordinary res.				
2. A me	aningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid				
sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:					
	the written form has not been furnished or does not comply with the standard.				
	the computer readable form has not been furnished or does not comply with the standard.				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

ernational application No.

PCT/EP 03/09594

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. Statement			
Novelty (N)	Claims	1-8, 12-25	YES
	Claims		NO
Inventive step (IS)	Claims	1-8, 12-25	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-8, 12-25	YES
	Claims		NO NO

2. Citations and explanations

- 1. The present application relates to a method for the targeted expression of nucleic acid sequences in non-reproductive flower tissues, i.e. not in pollen or ovaries, and methods for identifying promoters suitable for such purposes.
- 2. The promoters indicated in claim 1 are known from the prior art as sequences which are 5' from Arabidopsis genes. However, it was not known or obvious that these genes are expressed in non-reproductive flower tissues. The method as per claim 1 and the expression cassette according to claim 14 can therefore be considered novel and inventive.
- 3. The method according to claim 3 appears to be based on the assumption that the genes identified by the sequences are likewise expressed in non-reproductive flower tissues. However, it is not clear whether this is the case and whether the claimed invention can be carried out with each of these sequences. Furthermore, claim 3 is unclear since it refers to "variations" which are not specified any more closely.



nternational application No.
PCT/EP 03/09594

	The same claim 6.	objection	applies	to	the	method	as	per	
	· ·								
,									

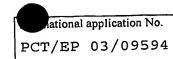
Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
 citations and explanations supporting such statement

citations and explanations supportin	ig such statement		
Statement			
Novelty (N)	Claims	1-8, 12-25	YES
	Claims		NO
Inventive step (IS)	Claims	1-8, 12-25	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-8, 12-25	YES
	Claims		NO
	Statement Novelty (N) Inventive step (IS)	Statement Novelty (N) Claims Claims Inventive step (IS) Claims Claims Claims Claims Claims	Novelty (N) Claims 1-8, 12-25 Claims 1-8, 12-25 Inventive step (IS) Claims 1-8, 12-25 Claims 1-8, 12-25 Industrial applicability (IA) Claims 1-8, 12-25

2. Citations and explanations

- 1. The present application relates to a method for the targeted expression of nucleic acid sequences in non-reproductive flower tissues, i.e. not in pollen or ovaries, and methods for identifying promoters suitable for such purposes.
- 2. The promoters indicated in claim 1 are known from the prior art as sequences which are 5' from Arabidopsis genes. However, it was not known or obvious that these genes are expressed in non-reproductive flower tissues. The method as per claim 1 and the expression cassette according to claim 14 can therefore be considered novel and inventive.
- on the assumption that the genes identified by the sequences are likewise expressed in non-reproductive flower tissues. However, it is not clear whether this is the case and whether the claimed invention can be carried out with each of these sequences. Furthermore, claim 3 is unclear since it refers to "variations" which are not specified any more closely.





The sa	ame objection	applies t	o the	method	as	per
claim	6.					
·						